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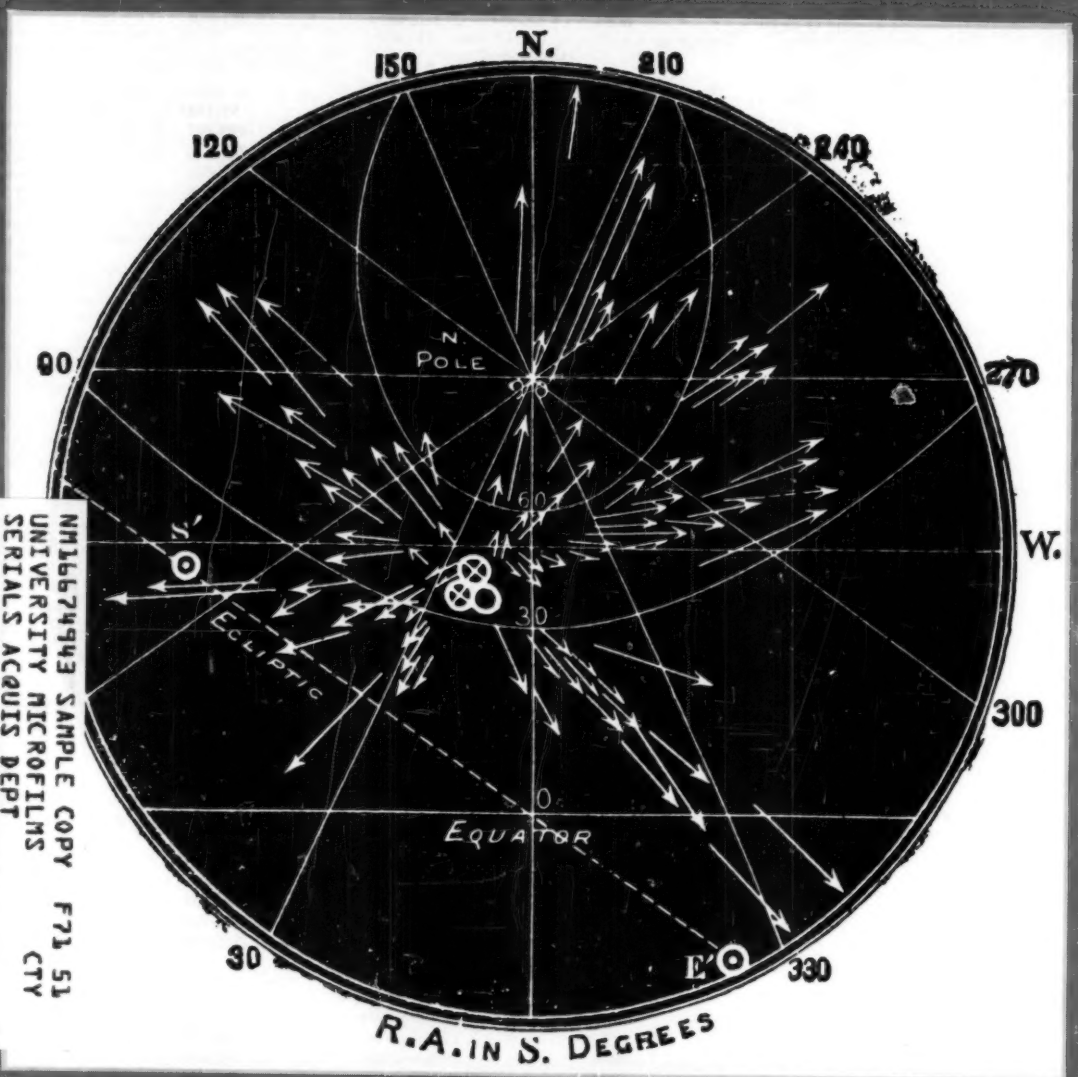

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Editor, Cloning Vectors: A Laboratory Manual, *Book review by* Harris, T. **322**, 603

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Book review of Physics of comets (*by* Krishna Swamy, K S,) **323**, 404

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Brew, H. Endfeet of retinal glial cells have higher densities of ion channels that mediate K+ buffering (*with* Gray, P T A, Mobbs, P, Attwell, D) *Letter to Nature*, **324**, 466

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Devine, J M. Mechanism of activation of *HuBlym*-1 gene unresolved, *Letter to Nature*, **321**, 437
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DeVita, V Jr. AIDS: Etiology, Diagnosis, Treatment and Prevention. *Book review by* Tedder, R S. **319**, 457

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Dewey, R J. Binary pulsar with a very small mass function (*with* Maguire, C M, Rawley, L A, Stokes, G H, Taylor, J H) *Letter to Nature*, **322**, 712

Dexter, M. Growth factors: From the laboratory to the clinic. *News and views*, **321**, 198

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di Paoli, P. Italian biotechnology: New initiative is called for. *News*, **322**, 8

Diakun, G P. EXAFS study of the zinc-binding sites in the protein transcription factor IIIA (*with* Fairall, L., KuFairall, L., Klug, A) *Letter to Nature*, **324**, 698

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Digestive physiology is a determinant of foraging bout frequency in hummingbirds (*with* Karasov, W H, Phan, D, Carpenter, F L) *Letter to Nature*, **320**, 62
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Molecular biology: Why do disused proteins become genetically lost or repressed?, *News and views*, **321**, 565
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Animal behaviour; How great white sharks, sabre-toothed cats and soldiers kill, *News and views*, **322**, 773
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Dickenson, A H. Enkephalins: A new approach to pain relief?, *News and views*, **320**, 681

Dickinson, A S. *Book review of* Computational Physics (*by* Koonin, S E.) **319**, 821

Dickinson, R E. Future global warming from atmospheric trace gases (*with* Cicerone, R J) *Review article*, **319**, 109

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Dickson, D. *Book review of* Scientists and journalists: Reporting science as news (Friedman, S M, Dunwoody, S, Rogers, C L *editors*) **322**, 317

Dickson, G R. Preservation in bogs (*with* Jope, E M) *Scientific correspondence*, **324**, 622

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DiFrancesco, D. Characterization of single pacemaker channels in cardiac sino-atrial node cells, *Letter to Nature*, **324**, 470

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Dikkers, A J. Geology in Petroleum Production: A Primer in Petroleum Geology. *Book review by* Wilson, R C L. **319**, 812

DiLella, A G. Tight linkage between a splicing mutation and a specific DNA haplotype in phenylketonuria (*with* Marvit, J, Lidsky, A S, Güttler, F, Woo, S L C) *Article*, **322**, 799

Dill, R F. Giant subtidal stromatolites forming in normal salinity waters (*with* Shinn, E A, Jones, A T, Kelly, K, Steinen, R P) *Letter to Nature*, **324**, 55

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Dingle, J T. Editor, How to Obtain Biomedical Research Funding. *Book review by* Gratzer, W. **321**, 387

Dinsel, C M. The Harvard Guide to Influential Books: 113 Eminent Harvard Professors Discuss The Books That Have Shaped Their Thinking. *Book review by* Marshall, J C. **324**, 187

Dissous, C. *Schistosoma mansoni* shares a protective oligosaccharide epitope with freshwater and marine snails (*with* Grzych, J M, Capron, A) *Letter to Nature*, **323**, 443

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Book review of The Biochemistry and Physiology of Plant Disease (*by* Goodman, R N, Király, Z, Wood, K R.) **322**, 604
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diZerega, G S. FRP is follicle regulatory protein, *Scientific correspondence*, **323**, 300

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Dobbs, E R. Electromagnetic Waves, *Book review by* Rosser, W G V. **319**, 823

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Doherty, J B. Cephalosporin antibiotics can be modified to inhibit human leukocyte elastase (*with* Ashe, B M, Argenbright, L W, Barker, P L, Bonney, R J, Chandler, G O, Dahlgren, M E, Dorn, C P Jr, Finke, P E, Firestone, R A, Fletcher, D, Hagmann, W K, Mumford, Mumford, R, O'Grady, L, Maycock, A L, Pisano, J M, Shah, S K, Thompson, K R, Zimmerman, M) *Letter to Nature*, **322**, 192

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Donahue, R E. Stimulation of haematopoiesis in primates by continuous infusion of recombinant human GM-CSF (*with* Wang, E A, Stone, D K, Kamen, R, Wong, G G, Sehgal, P K, Nathan, D G, Clark, S C) *Letter to Nature*, **321**, 872

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Doran, G H. Anatomical, cellular and molecular analysis of 8,000-yr-old human brain tissue from the Windover archaeological site (*with* Dickel, D N, Ballinger, W E, Agee, O F, Laipis, P J, Hauswirth, W W) *Letter to Nature*, **323**, 803

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Dow, J D. Editor, Superlattices and Microstructures: A Journal Devoted to the Science and Technology of Synthetic Microstructures, Microdevices, Surfaces and Interfac. *Journal review by* Holmes-Siedle, A. **323**, 379

Dower, S K. The cell surface receptors for interleukin-1α and interleukin-1β are identical (*with* Kronheim, S R, Hopp, T P, Cantrell, M, Deeley, M, Gillis, S, Henney, C S, Urdal, D L) *Letter to Nature*, **324**, 266

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Doyle, H J. Transcripts encoded by a homoeo box gene are restricted to dorsal tissues of *Drosophila* embryos (*with* Harding, K, Hoey, T, Levine, M) *Letter to Nature*, **323**, 76

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Dran, J-C. Mechanism of aqueous dissolution of silicate glasses yielded by fission tracks (*with* Petit, J-C, Brousse, C) *Letter to Nature*, **319**, 485

Draper, P. Leprosy vaccine, *Correspondence*, **319**, 94

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Dronamraju, K R. Haldane: The Life and Work of J.B.S. Haldane with Special Reference to India. *Book review by* Pirie, N W. **319**, 630

Druffel, E R M. Input of excess CO_2 to the surface ocean based on $^{13}C/^{12}C$ ratios in a banded Jamaican sclerosponge (*with* Benavides, L M) *Letter to Nature*, **321**, 58

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Dubowitz, V. X-autosome translocations in females with Duchenne or Becker muscular dystrophy. *Matters arising*, **322**, 291

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Duncan, R A. Plume versus lithospheric sources for melts at Ua Pou, Marquesas Islands (*with* McCulloch, M T, Barsczus, H G, Nelson, D R) *Letter to Nature*, **322**, 534

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Dutia, B M. Specific inhibition of herpesvirus ribonucleotide reductase by synthetic peptides (*with* Frame, M C, Subak-Sharpe, J H, Clark, W N, Marsden, H S) *Letter to Nature*, **321**, 439

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Eisenberg, D. Solvation energy in protein folding and binding (*with* McLachlan, A D) *Article*, **319**, 199
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Fischer, P. Licht und Leben: Ein Bericht über Max Delbrück, den Wegbereiter der Molekularbiologie. *Book review by* Perutz, M. **320**, 639

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Flockerzi, V. Purified dihydropyridine-binding site from skeletal muscle t-tubules is a functional calcium channel (*with* Oeken, H-J, Hofmann, F, Pelzer, D, Cavalié, A, Trautwein, W) *Letter to Nature*, **323**, 66

Flores, R A. Is the Universe dominated by relativistic particles? (*with* Blumenthal, G R, Dekel, A, Primack, J R) *Letter to Nature*, **323**, 781

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Flowers, R H. Dragon's exhalations give clue to Chernobyl. *Scientific correspondence*, **323**, 208

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Fowler, V M. Cytoskeleton: New views of the red cell network. *News and views*, **322**, 777

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Fox, P T. Mapping human visual cortex with positron emission tomography (*with* Mintun, M A, Raichle, M E, Miezin, F M, Allman, J M, Van Essen, D C) *Letter to Nature*, **323**, 806

Fox, R. *Book review of* From Knowledge to Power: The Rise of the Science Empire in France 1860-1939 (*by* Paul, H W,) **320**, 656

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Frank, N. Diagnosis of Huntington's chorea. *Correspondence*, **320**, 676

Frank-Kamenetskii. DNA structure: A simple solution to the stability of the double helix?. *News and views*, **324**, 305

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French, V. Developmental biology: Nervous excitement over insect muscle patterns. *News and views*, **323**, 671

Frerichs, G N. Ulcerative rhabdovirus in fish in South-East Asia (*with* Millar, S D, Roberts, R J) *Scientific correspondence*, **322**, 216

Friberg, J. Editor, Journal of In Vitro Fertilization and Embryo Transfer. *Journal review by* Austin, C R. **323**, 362

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Friis, E M. Floral evidence for Cretaceous chloranthoid angiosperms (*with* Crane, P R, Pedersen, K R) *Letter to Nature,* **320,** 163
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Grard, R. Observations of waves and plasma in the environment of comet Halley (*with* Pedersen, A, Trotignon, J-G, Beghin, C, Mogilevsky, M, Mikhailov, Y, Molchanov, O, Formisano, V) *Letter to Nature*, **321**, 290

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Green, S. Human oestrogen receptor cDNA: sequence, expression and homology to *v-erb-A* (*with* Walter, P, Kumar, V, Krust, A, Bornert, J-M, Argos, P, Chambon, P) *Article*, **320**, 134
Carcinogenesis: A superfamily of potentially oncogenic hormone receptors (*with* Chambon, P) *News and views*, **324**, 615

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Hard, T M. Diurnal cycle of tropospheric OH (*with* Chau, C Y, Mehrabzadeh, A A, Pan, W H, O'Brien, R J) *Letter to Nature,* **322,** 617

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Johnson, E C. Cyclic GMP is involved in the excitation of invertebrate photoreceptors (*with* Robinson, P R, Lisman, J E) *Letter to Nature*, **324**, 468

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Johnson, P. Striking similarities between antigen receptor J pieces and sequence in the second chain of the murine CD8 antigen (*with* Williams, A F) *Letter to Nature*, **323**, 74

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Johnson Re, B. SERC annual report, *News*, **324**, 203

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Johnstone, A. Ion flow at comet Halley (*with* Coates, A, Kellock, S, Wilken, B, Jockers, K, Rosenbauer, H, Studemann, W, Weiss, W, Formisano, V, Amata, E, Cerulli-Irelli, R, Dobrowolny, M, Terenzi, R, Egidi, A, Borg, H, Hultquist, B, Winningham, J, Gurgiolo, C, Bryant, D, Edwards, T, Feldman, W, Thomsen, M, Wallis, M K, Biermann, L, Schmidt, H, Lust, R, Haerendel, G, Paschmann, G) *Letter to Nature*, **321**, 344

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Jolly, A. The Evolution of Primate Behaviour, 2nd Edn., *Book review by* Anderson, J R. **319**, 800

Jolly, D C. Last word on metric, *Correspondence*, **321**, 806
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Editor, Visual Cortex. Cerebral Cortex, Vol.3, *Book review by* Blakemore, C. **320**, 689
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Jones, J H. Geochemical constraints on core formation in the Earth (*with* Drake, M J) *Review article*, **322**, 221
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Jones, J S. Human evolution: How small was the bottleneck? (*with* Rouhani, S) *News and views*, **319**, 449
Book review of The Evolutionary Process: A Critical Review of Evolutionary Theory (*by* Grant, V.) **320**, 317
Book review of Natural selection in the wild (*by* Endler, J A.) **322**, 124
Mankind's genetic bottleneck (*with* Rouhani, S) *Scientific correspondence*, **322**, 599

Jones, L. Accidental human vaccination with vaccinia virus expressing nucleoprotein gene (*with* Ristow, S, Yilma, T, Moss, B) *Scientific correspondence*, **319**, 543

Jones, N C. Gene expression: Negative regulation of enhancers, *News and views*, **321**, 202

Jones, N H. Isolation of complementary DNA clones encoding the human lymphocyte glycoprotein T1/Leu-1 (*with* Clabby, M L, Dialynas, D P, Huang, H-J S, Hertzenberg, L A, Strominger, J L) *Letter to Nature*, **323**, 346

Jones, P. Editor, A Hotbed of Genius: The Scottish Enlightenment, 1730-90, *Book review by* Golinski, J V. **323**, 678

Jones, P D. Global temperature variations between 1861 and 1984 (*with* Wigley, T M L, Wright, P B) *Article*, **322**, 430

Jones, P T. Replacing the complementary-determining regions in a human antibody with those from a mouse (*with* Dear, P H, Foote, J, Neuberger, M S, Winter, G) *Letter to Nature*, **321**, 522

Jones, R A L. Mutual diffusion in a miscible polymer blend (*with* Klein, J, Donald, A M) *Letter to Nature*, **321**, 161

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Jones, R V. *Book review of* A life in science (*by* Mott, N.) **322**, 121

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Jones, W R. *Journal review of* Advances in Contraception (Zatuchni, G I *editor*) **323**, 362

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Jordan, C. Identification of [Fe III] in the solar ultraviolet spectrum (*with* Bartoe, J D F, Brueckner, G E, Dere, K P) *Letter to Nature*, **324**, 444

Jordan, C C. Editor, Substance P: Metabolism and Biological Actions, *Book review by* Hanley, M R. **320**, 26

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Kastner, M. Carbonate recrystallization in basal sediments: evidence for convective fluid flow on a ridge flank (*with* Gieskes, J M, Hu, J-Y) *Letter to Nature*, **321**, 158

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Katz, M J. Elements of the Scientific Paper: A Step-by-Step Guide for Students and Professionals, *Book review by* Galloway, J. **320**, 494

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Prazdny, K. "Capture" of stereopsis by illusory contours, *Matters arising,* **324,** 393

Preisinger, A. The Cretaceous/Tertiary boundary in the Gosau

Basin, Austria (*with* Zobetz, E, Gratz, A J, Lahodynsky, R, Becke, M, Mauritsch, H J, Eder, G, Grass, F, Rögl, F, Stradner, H, Surenian, R) *Article*, **321**, 794

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Prell, W L. Coherent response of Arabian Sea upwelling and pollen transport to late Quaternary monsoonal winds (*with* Van Campo, E) *Letter to Nature*, **323**, 5[illegible]

Premack, D. Gavagai! Or the Future History of the Animal Language Controversy, *Book review by* Menzel Jr, E W. **323**, 497

Prescott, D M. *Book review of* Molecular Cytology. Vol 1 The Cell Cycle. Vol 2 Cell Interactions (*by* Brachet, J.) **323**, 589

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Book review of The Anthropic Cosmological Principle (*by* Barrow, J D, Tipler, F J.) **320**, 315

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Price, G D. Earth sciences: Perovskites and plate tectonics, *News and views*, **319**, 175

Price, P B. Fossil tracks of α-particle interactions in minerals (*with* Salamon, M H) *Letter to Nature*, **320**, 425

Price, R H. *See under* Eichelberger, J C., **323**, 598

Prigogine, I. *Book review of* Une Incertaine Réalité: Le Monde Quantique, la Connaissance et la Durée (*by* d'Espagnat, B.) **320**, 661

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Primrose, S B. Principles of Gene Manipulation: An Introduction to Genetic Engi[illegible]eering, 3rd Edn., *Book review by* Oliver, S. **319**, 803

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Pringle, D M. Gamma-ray spectrum of Chernobyl fallout (*with* Vermeer, W J, Allen, K W) *Scientific correspondence*, **321**, 569

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Prochownik, E V. Deregulated expression of *c-myc* by murine erythroleukaemia cells prevents differentiation (*with* Kukowska, J) *Letter to Nature*, **322**, 848

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Prospero, J M. Impact of the North African drought and El Niño on mineral dust in the Barbados trade winds (*with* Nees, R T) *Letter to Nature*, **320**, 735

Prosser, C L. *Book review of* Changes in Eukaryotic Gene Expression in Response to Environmental Stress (Atkinson, B G, Walden, D B *editors*) **319**, 187

Book review of The Adaptive Role of Lipids in Biological Systems (*by* Hadley, N.) **319**, 187

Proudfoot, N J. Molecular biology: Globin gene monkey business, *News and views*, **321**, 730

Transcriptional interference and termination between duplicated α-globin gene constructs suggests a novel mechanism for gene regulation, *Letter to Nature*, **322**, 562

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Provine, W B. Sewall Wright and Evolutionary Biology, *Book review by* Felsenstein, J. **324**, 175

Editor, Evolution: Selected Papers by Sewall Wright, *Book review by* Felsenstein, J. **324**, 175

Pruijn, G J M. Nuclear factor III, a novel sequence-specific DNA-binding protein from HeLa cells stimulating adenovirus DNA replication (*with* van Driel, W, van der Vliet, P C) *Letter to Nature*, **322**, 656

Psimopoulos, M. How to test special relativity (*with* Theocharis, T) *Scientific correspondence*, **319**, 269

How to test special relativity: Reply (*with* Theocharis, T) *Scientific correspondence*, **321**, 734

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A Genetic Switch: Gene Control and Phage λ, *Book review by* Brenner, S. **324**, 179

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Putney, J W. Editor, Calcium in Biological Systems, *Book review by* Baker, P F. **319**, 22

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Pye, K. Diagenesis of US Gulf Coast shales (*with* Krinsley, D H, Burton, J H) *Letter to Nature*, **324**, 557

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Quertermous, T Human T-cell μ genes contain *N* segments and have marked junctional variability (*with* Strauss, W, Murre, C, Dialynas, D P, Strominger, J L, Seidman, J G) *Letter to Nature*, **322**, 184

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Quintanilla, M. Carcinogen-specific mutation and amplification of Ha-*ras* during mouse skin carcinogenesis (*with* Brown, K, Ramsden, M, Balmain, A) *Letter to Nature*, **322**, 78

Rabb, T K. *Book review of* Climate Impact Assessment. SCOPE Report 27 (Kates, R W, Ausubel, J H, Berberian, M *editors*) **320**, 663

Rabbitt, P. *Book review of* Neuropsychology of Memory (Squire, L R, Butters, N *editors*) **319**, 365

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Raine, D J. *Book review of* Basic Concepts in Relativity and Early Quantum Theory, 2nd Edn. (*by* Resnick, R, Halliday, D.) **319**, 822

Book review of Elements of Relativity Theory (*by* Lawden, D F.) **319**, 822

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Raiswell, R W. *Journal review of* Biogeochemistry (Howarth, R W *editor*) **323**, 371

Rajasekharan, K. The quasi-crystalline phase in the Mg-Al-Zn system (*with* Akhtar, D, Gopalan, R, Muraleedharan, K) *Letter to Nature*, **322**, 528

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Ramdohl, T. Ubiquitous occurrence of 2-nitrofluoranthene and 2-nitropyrene in air (*with* Zielinska, B, Arey, J, Atkinson, R, Winer, A M, Pitts, J N Jr) *Letter to Nature*, **321**, 425

Rammensee, H-G. Restricted recognition of β_2-microglobulin by cytotoxic T lymphocytes (*with* Robinson, P J, Crisanti, A, Bevan, M J) *Letter to Nature*, **319**, 502

Ramoo, A S. A comparison of inhibition in orientation and spatial frequency selectivity of cat visual cortex (*with* Shadlen, M, Skottun, B C, Freeman, R D) *Letter to Nature*, **321**, 237

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Ratner, D I. Equivalence of intracellular pH of differentiating *Dictyostelium* cell types, *Letter to Nature*, **321**, 180

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Rawley, L A. Period derivative and orbital eccentricity of binary pulsar 1953+29 (*with* Taylor, J H, Davis, M M) *Letter to Nature*, **319**, 383

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Rawlins, M D. *Journal review of* Pharmaceutical Medicine (Smith, R N *editor*) **323**, 366

Rayner, J M V. Vortex flow visualizations reveal change in upstroke function with flight speed in bats (*with* Jones, G, Thomas, A) *Letter to Nature*, **321**, 162

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Redmond, J W. Flavones induce expression of nodulation genes in *Rhizobium* (*with* Batley, M, Djordjevic, M A, Innes, R W, Kuempel, P L, Rolfe, B G) *Letter to Nature*, **323**, 632

Reed, F B. Fluoride, immunity and tooth decay, *Correspondence*, **323**, 198

Reed, R K. Effects of surface heat flux during the 1972 and 1982 El Niño epidsodes, *Letter to Nature*, **322**, 449

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Rees, D. Optical observations of the AMPTE artificial comet from the Northern Hemisphere (*with* Hallinan, T J, Stenback-Nielsen, H C, Mendillo, M, Baumgardner, J) *Article*, **320**, 704

Rees, M J. *See under* Crawford, C S., **323**, 514

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Reid, K B M. Immune systems: Complement-like cytotoxicity? *News and Views* **322**, 684

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Reijnders, P J H. Reproductive failure in common seals feeding on fish from polluted coastal waters, *Letter to Nature*, **324**, 456

Reilly, E B. A functional γ gene formed from known γ-gene segments is not necessary for antigen-specific responses of murine cytotoxic T lymphocytes (*with* Kranz, D M, Tonegawa, S, Eisen, H N) *Letter to Nature*, **321**, 878

Reimers, C E. Oxygen microprofiles measured *in situ* in deep ocean sediments (*with* Fischer, K M, Merewether, R, Smith, K L Jr, Jahnke, R A) *Letter to Nature*, **320**, 741

Reinach, F C. Site-directed mutagenesis of the regulatory light-chain Ca^{2+}/Mg^{2+} binding site and its role in hybrid myosins (*with* Nagai, K, Kendrick-Jones, J) *Letter to Nature*, **322**, 80

Tissue-specific expression of the human troponyoin gene involved in the generation of the *trk* oncogene (*with* MacLeod, A R) *Letter to Nature*, **322**, 648

Reinberg, A. Editor, Chronobiology International, *Journal review by* Strogatz, S H. **323**, 363

Reinhard, R. The Giotto encounter with comet Halley, *Article*, **321**, 313

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Comet Halley-solar wind interaction from electron measurements aboard Giotto (*with* Sauvaud, J A, d'Uston, C, Cotin, F, Cros, A, Anderson, K A, Carlson, C W, Curtis, D W, Lin, R P, Mendis, D A, Korth, A, Richter, A K) *Letter to Nature*, **321**, 349

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Reth, M. A novel V_H to $V_HD_HJ_H$ joining mechanism in heavy-chain-

negative (null) pre-B cells results in heavy-chain production (*with* Gehrmann, P, Petrac, E, Wiese, P) *Letter to Nature*, **322**, 840

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Reymond, C D. Phenotypic changes induced by a mutated *ras* gene during the development of *Dictyostelium* transformants (*with* Gomer, R H, Nellen, W, Theibert, A, Devreotes, P, Firtel, R A) *Letter to Nature*, **323**, 340

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Richards, W G. Structure and Spectra of Molecules, *Book review by* Stone, A. **319**, 819

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Riedel, H. A chimaeric receptor allows insulin to stimulate tyrosine kinase activity of epidermal growth factor receptor (*with* Dull, T J, Schlessinger, J, Ullrich, A) *Letter to Nature*, **324**, 68

Riedler, W. Magnetic field observations in comet Halley's coma (*with* Schwingenschuh, K, Yeroshenko, Ye G, Styashkin, V A, Russell, C T) *Letter to Nature*, **321**, 288

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Rigby, M. *Book review of* Physical Chemistry, 3rd Edn. (*by* Atkins, P W.) **319**, 820

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Rindler, W. Spinors and space-time. Vol. 2 Spinor and twistor methods in space-time geometry, *Book review by* Ashtekar, A. **322**, 318

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Roberts, L S. Foundations of Parasitology, 3rd Edn., *Book review by* Cox, F E G. **319**, 807

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Robson, E L. A new infrared spectral component of the quasar 3C273 (*with* Gear, W K, Brown, L M J, Courvoisier, T J L, Smith, M G, Griffin, M J, Bklecha, A) *Letter to Nature*, **323**, 134

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Robson, J N. Identification of novel widely distributed sedimentary acyclic sesterterpenoids (*with* Rowland, S J) *Letter to Nature*, **324**, 561

Robson, R L. The alternative nitrogenase of *Azotobacter chroococcum* is a vanadium enzyme (*with* Eady, R R, Richardson, T H, Miller, R W, Hawkins, M, Postgate, J R) *Letter to Nature*, **322**, 388

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Rodger, C D. *Book review of* Molecular Structure: Macromolecules in Three Dimensions (*by* Fletterick, R J, Schroer, T, Matela, R J.) **319**, 804

Rodgers, D J. UKS plasma measurements near the AMPTE artificial comet (*with* Coates, A J, Johnstone, A D, Smith, M F, Bryant, D A, Hall, D S, Chaloner, C P) *Article*, **320**, 712

Rodhe, H. Temporal evolution of nitrogen compounds in Swedish precipitation since 1955 (*with* Rood, M J) *Letter to Nature*, **321**, 762

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Rodriguez, M H. A protein on *Plasmodium falciparum*-infected erythrocytes functions as a transferrin receptor (*with* Jungery, M) *Letter to Nature*, **324**, 388

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Rogers, B. Monocular aniseikonia: a motion parallax analogue of the disparity-induced effect (*with* Koenderink, J) *Letter to Nature*, **322**, 62

Rogers, C L. Editor, Scientists and journalists: Reporting science as news, *Book review by* Dickson, D. **322**, 317

Rogers, E. Looking at Vertebrates: A Practical Guide to Vertebrate Adaptations, *Book review by* Kemp, T. **319**, 811

Rogers, J. Repeated sequences: The origin of retroposons, *News and views*, **319**, 725

Relationship of *Blym* genes to repeated sequences, *Scientific correspondence*, **320**, 579

Rogers, J H. Comet RNA shock, *Correspondence*, **320**, 480

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Rolfe, M. Induction of yeast Ty element transcription by ultraviolet light (*with* Spanos, A, Banks, G) *Letter to Nature*, **319**, 339

Rona, P A. Black smokers, massive sulphides and vent biota at the Mid-Atlantic Ridge (*with* Klinkhammer, G, Nelsen, T A, Trefry, J H, Elderfield, H) *Article*, **321**, 33

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Rose, D. Editor, Models of the Visual Cortex, *Book review by* Blakemore, C. **320**, 689

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Rosen, C A. Post-transcriptional regulation accounts for the *trans*-activation of the human T-lymphotropic virus type III (*with* Sodroski, J G, Goh, W C, Dayton, A I, Lippke, J, Haseltine, W A) *Article*, **319**, 555

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Rosen, R. Editor, Theoretical Biology and Complexity: Three Essays on the Natural Philosophy of Complex Systems, *Book review by* Segel, L A. **319**, 457

Rosen E. Editor, Nicholas Copernicus: Complete Works. Vo.#1. III Minor Works, *Book review by* Westman, R S. **324**, 422

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Rosenberg, A S. Analysis of T-cell subsets in rejection of A^b mutant skin allografts differing at class I MHC (*with* Mizuochi, T, Singer, A) *Letter to Nature*, **322**, 829

Rosenberg, L *See under* De Clercq, E., **323**, 464

Rosenberg, S. AIDS: Etiology, Diagnosis, Treatment and Prevention, *Book review by* Tedder, R S. **319**, 457

Rosenberg, U B. Structural homology of the product of the *Drosophila Krüppel* gene with *Xenopus* transcription factor IIIA (*with* Schröder, C, Preiss, A, Kienlin, A, Côté, S, Reide, I, Jäckle, H) *Letter to Nature*, **319**, 336

Rosenberger, R F. Editor, Accuracy in Molecular Processes: Its Control and Relevance to Living Systems, *Book review by* Orgel, L E. **324**, 219

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Rossant, J. Clonal origin of haematopoietic colonies in the postnatal mouse liver (*with* Vijh, K M, Grossi, C E, Cooper, M D) *Letter to Nature*, **319**, 507

Rosseinsky, D R. *Book review of* The Chemist's English (*by* Schoenfeld, R,) **320**, 665

Book review of Hopping Conduction in Solids (*by* Böttger, H, Bryskin, V V,) **322**, 220

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Book review of Problems and Solutions in Electromagnetic Theory (*by* Lerner, C M,) **319**, 823

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Rossiter, A. Evolutionary 'classics' may self-destruct, *Scientific correspondence*, **322**, 315

Rosson, D. Nucleotide sequence of chicken c-*myb* complementary DNA and implications for *myb* oncogene activation (*with* Reddy, E P) *Letter to Nature*, **319**, 604

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Roth, J S. The origins of the Earth's oceans, *Scientific correspondence*, **322**, 779

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Rothman, J E. Cell biology: Life without clathrin, *News and views*, **319**, 96

Cell biology: An unfolding story of protein translocation (*with* Kornberg, R D) *News and views*, **322**, 209

Rothman, S S. Protein Secretion: A critical analysis of the vesicle model, *Book review by* Bretscher, M S. **323**, 588

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Rouyer, F. A gradient of sex linkage in the pseudoautosomal region of the human sex chromosomes (*with* Simmler, M-C, Johnsson, C, Vergnaud, G, Cooke, H J, Weissenbach, J) *Article*, **319**, 291

Rowan-Robinson, M. *Book review of* Cosmological Constants: Papers in Modern Cosmology (Bernstein, J, Feinberg, G *editors*) **323**, 769

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Rowe, G T. Do continental shelves export organic matter? (*with* Smith, S, Falkowski, P, Whitledge, T, Theroux, R, Phoel, W, Ducklow H) *Letter to Nature*, **324**, 559

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Rupke, N A. *Book review of* Climatic change and world affairs, revised edition. (*by* Tickell, C,) **322**, 319

Book review of Frontiers of Learning: The Ph.D. Octopus (*by* Hesseling, P,) **324**, 192

Rupp, F. No functional γ-chain transcripts detected in an alloreactive cytotoxic T-cell clone (*with* Frech, G, Hengartner, H, Zinkernagel, R M, Joho, R) *Letter to Nature*, **321**, 876

Ruprecht, R M. Suppression of mouse viraemia and retroviral disease by 3'-azido-3'-deoxy-thymidine (*with* O'Brien, L G, Rossoni, L D, Nusinoff-Lehrman, S) *Letter to Nature*, **323**, 467

Ruse, M. Taking Darwin Seriously: A Naturalistic Approach to Philosophy, *Book review by* Bowler, P J. **321**, 125

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Russell, A J. Commercial samples of subtilisin BPN' (*with* Fersht, A R) *Scientific correspondence*, **321**, 733

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Russell, I J. Mechanosensitivity of mammalian auditory hair cells *in vitro* (*with* Richardson, G P, Cody, A R) *Letter to Nature*, **321**, 517

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Ryan, J. Semiconductors: An optical Stark effect observed in gallium arsenide, *News and views*, **324**, 303

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Sabatier, P C. Editor, Inverse Problems: An International Journal of Inverse Problems, Inverse Methods and Computerized Inversion of Data, *Journal review by* Burge, R E. **323**, 378

Sabel, B A. Neurology: Pharmacological treatment of central nervous system injury (*with* Stein, D G) *News and views*, **323**, 493

Sabloff, J A. Editor, American Archaeology Past and Future: A Celebration of the Society for American Archaeology 1935-1985, *Book review by* Bray, W. **322**, 784

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Sagawa, T. *See under* Nakahara, H., **321**, 475

Sagdeev, R Z. Vega spacecraft encounters with comet Halley (*with* Blamont, J, Galeev, A A, Moroz, V I, Shapiro, V D, Shevchenko, V I, Szego, K) *Article*, **321**, 259

Television observations of comet Halley from Vega spacecraft (*with* Szabó, F, Avanesov, G A, Cruvellier, P, Szabó, L, Szego, K, Abergel, A, Balazs, A, Barinov, I V, Bertaux, J-L, Blamont, J, Detaille, M, Demarelis, E, Dul'nev, G N, Endröczy, G, Gardos, M, Kanyo, M, Kostenko, V I, Krasikov, V A, Nguyen-Trong, T, Nyitrai, Z, Reny, I, Rusznyak, P, Shamis, V A, Smith, B, Sukhanov, K G, Szalai, S, Tarnopolsky, V I, Toth, I, Tsukanova, G, Valnácek, B I, Varhalmi, L, Zaiko, Y K, Zatsepin, S I, Ziman, Y A, Zsenei, M, Zhukov, B S) *Letter to Nature*, **321**, 262

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Saiki, R K. Analysis of enzymatically amplified β-globin and HLA-DQα DNA with allele- specific oligonucleotide probes (*with* Bugawan, T L, Horn, G T, Mullis, K B, Erlich, H A) *Letter to Nature*, **324**, 163

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Sakai, H M. Ganglion cell dendrites are presynaptic in catfish retina (*with* Naka, K-I, Dowling, J E) *Letter to Nature*, **319**, 495

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Salo, J. River dynamics and the diversity of Amazon lowland forest (*with* Kalliola, R, Häkkinen, I, Mäkinen, Y, Niemelä, P, Puhakka, M, Coley, P D) *Letter to Nature*, **322**, 254

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Salzen, E A. *Book review of* Learning and Emotion: A Biological Synthesis. Volume 1, Evolutionary Processes (*by* Livesey, P J,) **323**, 768

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Sap, J. The c-*erb-A* protein is a high-affinity receptor for thyroid hormone (*with* Muñoz, A, Damm, K, Goldberg, Y, Ghysdael, J, Leutz, A, Beug, H, Vennström, B) *Article*, **324**, 635

Sapienza, C. 'Brain-specific' transcription and evolution of the identifier sequence (*with* St-Jacques, B) *Letter to Nature*, **319**, 418

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Sauer, K. Physical Chemistry: Principles and Applications in Biological Sciences, 2nd Edn., *Book review by* Richards, E G. **319**, 804

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Editor, The population structure of vegetation. Handbook of vegetation science, Vol. 3., *Book review by* Moore, P D. **322**, 320

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Disease-specific and tissue-specific production of unintegrated feline leukaemia virus variant DNA in feline AIDS, *Letter to Nature*, (Mullins, J I, Chen, C S and Hoover, E A) **319**, 333

AIDS: Academy looks for strategy, *News*, (Palca, J) **319**, 441

Understanding AIDS: A Comprehensive Guide, (Gong, V *editor*) *book review by* Tedder, R S. **319**, 457

AIDS: The Acquired Immune Deficiency Syndrome, (Daniels, V G) *book review by* Tedder, R S. **319**, 457

AIDS: Etiology, Diagnosis, Treatment and Prevention, (DeVita, V Jr, Hellman, S and Rosenberg, S) *book review by* Tedder, R S. **319**, 457

AIDS protein made, *News*, (Wright, K) **319**, 525

Post-transcriptional regulation accounts for the *trans*-activation of the human T-lymphotropic virus type III, *Article*, (Rosen, C A, Sodroski, J G, Goh, W C, Dayton, A I, Lippke, J and Haseltine, W A) **319**, 555

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The *trans*-activator gene of HTLV-III is essential for virus replication, *Letter to Nature*, (Fisher, A G, Feinberg, M B, Josephs, S F, Harper, M E, Marselle, L M, Reyes, G, Gonda, M A, Aldovini, A, Debouk, C, Gallo, R C and Wong-Staal, F) **320**, 367

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Expression of AIDS virus envelope gene in recombinant vaccinia viruses, *Letter to Nature*, (Hu, S-L, Kosowski, S G and Dalrymple, J M) **320**, 537

AIDS research: French virus in the picture, *News*, (Beardsley, T) **320**, 563

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Virus nomenclature: Controversy over AIDS virus extends to name, *News*, (Palca, J) **321**, 3

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A second post-transcriptional *trans*-activator gene required for HTLV-III replication, *Article*, (Sodroski, J, Goh, W C, Rosen, C, Dayton, A, Terwilliger, E and Haseltine, W) **321**, 412

Isolation of an HTLV-III-related retrovirus from macaques with simian AIDS and its possible origin in asymptomatic mangabeys, *Letter to Nature*, (Murphey-Corb, M, Martin, L N, Rangan, S R S, Baskin, G B, Gormus, B J, Wolf, R H, Andes, W A, West, M and Montelaro, R C) **321**, 435

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International Dictionary of Medicine and Biology, (Landau, S *editor*) *book review by* Weatherall, D J. **320**, 643

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Biotechnology Progress: A Journal of Food, Pharmaceutical and Bioengineering, (Shuler, M L *editor*) *journal review by* Davies, J. **323**, 368

MIRCEN Journal of Applied Microbiology and Biotechnology: A Research Journal for Biotechnology in the Developing World, (Senez, J C and Skinner, F A *editors*) *journal review by* Davies, J. **323**, 368

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c-myc. Rearrangement and enhanced expression of *c-myc* in hepatocellular carcinoma of hepatitis virus infected woodchucks, *Letter to Nature*, (Möröy, T, Marchio, A, Etiemble, J, Trèpo, C, Tiollais, P and Buendia, M-A) **324**, 276

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Chemistry, inorganic. A new synthetic approach to the ferritin core uncovers the soluble iron (III) oxo-hydroxo aggregate $[Fe_{11}O_6(O_2CPh)_{15}]$. *Letter to Nature*, (Gorun, S M and Lippard, S J) **319**, 666

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erb-A. Human oestrogen receptor cDNA: sequence, expression and homology to v-*erb-A*, *Article*, (Green, S, Walter, P, Kumar, V, Krust, A, Bornert, J-M, Argos, P and Chambon, P) **320**, 134
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Fog. A regional acidic cloud/fog water event in the eastern United States, *Letter to Nature*, (Weathers, K C, Likens, G E, Bormann, F H, Eaton, J S, Bowden, W B, Andersen, J L, Cass, D A, Galloway, J N, Keene, W C, Kimball, K D, Huth, P and Smiley, D) **319**, 657

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Pituitary FSH is released by a heterodimer of the β-subunits from the two forms of inhibin, *Letter to Nature*, (Ling, N, Ying, S-Y, Ueno, N, Shimasaki, S, Esch, F, Hotta, M and Guillemin, R) **321**, 779
The β-subunit of follicle-stimulating hormone is deleted in patients with aniridia and Wilms' tumour, allowing a further definition of the WAGRlocus, *Letter to Nature*, (Glaser, T, Lewis, W H, Bruns, G A P, Watkins, P C, Rogler, C E, Shows, T B, Powers, V E, Willard, H F, Goguen, J M, Simola, K O J and Housman, D E) **321**, 882

Food science. Food Reviews International: Production, Processing, Acceptance, Nutrition and Health, (Teranishi, R and Hornstein, I *editors*) *journal review by* Geistler, C and Sanders, T A B.**323**, 374
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Gamma-ray bursts. The soft μ-ray burst GB790107, *Letter to Nature*, (Laros, J G, Fenimore, E E, Fikani, M M, Klebesadel, R W, Barat, C, Chambon, G, Hurley, K, Niel, M, Vedrenne, G, Kane, S R, Kurt, V G, Mersov, G A and Zenchenko, V M) **322**, 152

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Gene, abl. Expression of a translocated c-*abl* gene in hybrids of mouse fibroblasts and chronic myelogenous leukaemia cells, *Letter to Nature*, (Kozbor, D, Giallongo, J B, Sierzega, M E, Konopka, J B, Wyte, O N, Showe, L C and Croce, C M) **319**, 331

Gene, acetylcholine receptor. Isolation of a cDNA clone coding for a possible neural nicotinic acetylcholine receptor α-subunit, *Article*, (Boulter, J, Evans, K, Goldman, D, Martin, G, Treco, D, Heinemann, S and Patrick, J) **319**, 368

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Gene, *Blym* oncogene. Relationship of *Blym* genes to repeated sequences, *Scientific correspondence*, (Cooper, G M, Goubin, G, Diamond, A and Neiman, P) **320**, 579

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Gene, chronic granulomatous disease. Cloning the gene for an inherited human disorder — chronic granulomatous disease — on the

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Gene, dihydrofolate reductase. Transcription factor Sp1 recognizes a DNA sequence in the mouse dihydrofolate reductase promoter, *Letter to Nature*, (Dynan, W S, Sazer, S, Tjian, R and Schimke, R T) **319**, 246

Gene, *erb-A* oncogene. Human oestrogen receptor cDNA: sequence, expression and homology to v-*erb-A*, *Article*, (Green, S, Walter, P, Kumar, V, Krust, A, Bornert, J-M, Argos, P and Chambon, P) **320**, 134

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Gene, *erb-B* oncogene. Similarity of protein encoded by the human c-*erb-B-2* gene to epidermal growth factor receptor, *Letter to Nature*, (Yamamoto, T, Ikawa, S, Akiyama, T, Semba, K, Nomura, N, Miyajima, N, Saito, T and Toyoshima, K) **319**, 230

Gene, *fgr* oncogene. *fgr* proto-oncogene mRNA induced in lymphocytes by Epstein-Barr virus infection, *Letter to Nature*, (Cheah, M S C, Ley, T J, Tronick, S R and Robbins, K C) **319**, 238

Gene, *fms* oncogene. Structural alteration of viral homologue of receptor proto-oncogene *fms* at carboxyl terminus, *Letter to Nature*, (Coussens, L, Van Beveren, C, Smith, D, Chen, E, Mitchell, R L, Isacke, C M, Verma, I M and Ullrich, A) **320**, 277

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Gene, globin. Primate η-globin DNA sequences and man's place among the great apes, *Letter to Nature*, (Koop, B F, Goodman, M, Xu, P, Chan, K and Slightom, J L) **319**, 234

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Sequence organization and genomic complexity of primate θ globin gene, a novel α-globin-like gene, *Letter to Nature*, (Marks, J, Shaw, J-P and Shen, C-K J) **321**, 785

Gene, granulocyte colony-stimulating factor. Molecular cloning and expression of cDNA for human granulocyte colony-stimulating factor, *Letter to Nature*, (Nagata, S, Tsuchiya, M, Asano, S, Kaziro, Y, Yamazaki, T, Yamamoto, O, Hirata, Y, Kubota, N, Oheda, M, Nomura, H and Ono, M) **319**, 415

Gene, homoeobox. A human homoeo box gene specifically expressed in spinal cord during embryonic development, *Letter to Nature*, (Simeone, A, Mavilio, F, Bottero, L, Gampaolo, A, Russo, G, Faiella, A, Boncinelli, E and Peschle, C) **320**, 763

Homoeo-domain homology in yeast *MAT*α*2* is essential for repressor activity, *Letter to Nature*, (Porter, S D and Smith, M) **320**, 766

Gene, *Hox-3*. Spatial restriction in expression of a mouse homoeo box locus within the central nervous system, *Article*, (Awgulewitsch, A, Utset, M F, Hart, C P, McGinnis, W and Ruddle, F H) **320**, 328

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G[illegible] Regulation of human insulin gene expression in transgenic mice, *Letter to Nature*, (Selden, R F, Skoskiewicz, M J, Howie, K B, Russell, P S and Goodman, H M) **321**, 525

Gene, myel[illegible] The structural gene coding for myelin-associated proteolipid protein is mutated in *jimpy* mice, *Letter to Nature*, (Dautigny, A, Mattei, M-G, Morello, D, Alliel, P M, Pham-Dinh, D, Amar, L, Arnaud, D, Simon, D, Mattei, J-F, Guenet, J-L, Jollès, P and Avner, P) **321**, 867

Gene, *kit* oncogene. A new acute transforming feline retrovirus and relationship of its oncogene v-*kit* with the protein kinase gene family, *Article*, (Besmer, P, Murphy, J E, George, P C, Qiu, F, Bergold, P J, Lederman, L, Snyder, H W Jr, Brodeur, D, Zuckerman, E E and Hardy, W D) **320**, 415

Gene, *Knotted*. Analysis of genetic mosaics shows that the extra epidermal cell divisions in *Knotted* mutant maize plants are induced by adjacent mesophyll cells, *Letter to Nature*, (Hake, S and Freeling, M) **320**, 621

Gene, *Krüppel*. Nucleic acid-binding proteins: More metal-binding fingers, *News and views*, (Berg, J M) **319**, 264

Gene, *Krüppel*. Structural homology of the product of the *Drosophila* *Krüppel* gene with *Xenopus* transcription factor IIIA, *Letter to Nature*, (Rosenberg, U B, Schröder, C, Preiss, A, Kienlin, A, Côté, S, Reide, I and Jäckle, H) **319**, 336

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Gene, *MAT*. Homoeo-domain homology in yeast *MAT*α*2* is essential for repressor activity, *Letter to Nature*, (Porter, S D and Smith, M) **320**, 766

Gene, metallothionein. Inducible cellular transformation by a metallothionein-*ras* hybrid oncogene leads to natural killer cell susceptibility, *Letter to Nature*, (Trimble, W S, Johnson, P W, Hozumi, N and Roder, J C) **321**, 782

Gene, *myb* oncogene. Expression of the c-*myb* proto-oncogene during cellular proliferation, *Article*, (Thompson, C B, Challoner, P B, Neiman, P E and Groudine, M) **319**, 374

Nucleotide sequence of chicken c-*myb* complementary DNA and implications for *myb* oncogene activation, *Letter to Nature*, (Rosson, D and Reddy, E P) **319**, 604

Gene, *myc*. Human N-*myc* is closely related in organization and nucleotide sequence to c-*myc*, *Letter to Nature*, (Kohl, N E, Legouy, E, DePinho, R A, Nisen, P D, Smith, R K, Gee, C E and Alt, F W) **319**, 73

Gene, *myc* oncogene. Differential expression of *myc* family genes during murine development, *Letter to Nature*, (Zimmerman, K A, Yancopoulos, G D, Collum, R G, Smith, R K, Kohl, N E, Denis, K A, Nau, M M, Witte, O N, Toran-Allerand, D, Gee, C E, Minna, J D and Alt, F W) **319**, 780

Constitutive c-*myc* oncogene expression blocks mouse erythroleukaemia cell differentiation but not commitment, *Letter to Nature*, (Coppola, J A and Cole, M D) **320**, 760

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Gene, myelin-associated proteolipid. The structural gene coding for myelin-associated proteolipid protein is mutated in *jimpy* mice, *Letter to Nature*, (Dautigny, A, Mattei, M-G, Morello, D, Alliel, P M, Pham-Dinh, D, Amar, L, Arnaud, D, Simon, D, Mattei, J-F, Guenet, J-L, Jollès, P and Avner, P) **321**, 867

Gene, *neu* oncogene. The *neu* oncogene encodes an epidermal growth factor receptor-related protein, *Letter to Nature*, (Bargmann, C I, Hung, M-C and Weinberg, R A) **319**, 226

Gene, *nif*. Upstream activator sequences are present in the promoters of nitrogen fixation genes, *Letter to Nature*, (Buck, M, Miller, S, Drummond, M and Dixon, R) **320**, 374

Gene, *oncD* oncogene. Oncogenes: Tricks with tyrosine kinases, *News and views*, (Bishop, J M) **319**, 722

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Gene, *sis* oncogene. Activated human monocytes express the c-*sis* proto-oncogene and release a mediator showing PDGF-like activity, *Letter to Nature*, (Martinet, Y, Bitterman, P B, Mornex, J-F, Grotendorst, G R, Martin, G R and Crystal, R G) **319**, 158

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Gene, T-cell receptor. Immunoglobin genes: Inversion for gene construction, *News and views*, (Baltimore, D) **319**, 12

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The *trans*-activator gene of HTLV-III is essential for virus replication, *Letter to Nature*, (Fisher, A G, Feinberg, M B, Josephs, S F, Harper, M E, Marselle, L M, Reyes, G, Gonda, M A, Aldovini, A, Debouk, C, Gallo, R C and Wong-Staal, F) **320**, 367

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Isolation of an HTLV-III-related retrovirus from macaques with simian AIDS and its possible origin in asymptomatic mangabeys, *Letter to Nature*, (Murphey-Corb, M, Martin, L N, Rangan, S R S, Baskin, G B, Gormus, B J, Wolf, R H, Andes, W A, West, M and Montelaro, R C) **321**, 435

Induction of CD4-dependent cell fusion by the HTLV-III?/LAV envelope gycoprotein, *Letter to Nature*, (Lifson, J D, Feinberg, M B, Reyes, G R, Rabin, L, Banapour, B, Chakrabarti, S, Moss, B, Wong-Staal, F, Steimer, K S and Englemann, E G) **323**, 725

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Human B-cell differentiation factor. Complementary DNA for a novel human interleukin (BSF-2) that induces B lymphocytes to produce immunoglobulin, *Letter to Nature*, (Hirano, T, Yasukawa, K, Harada, H, Taga, T, Watanabe, Y, Matsuda, T, Kashiwamura, S, Nakajima, K, Koyama, K, Iwamatsu, A, Tsunasawa, S, Sakiyama, F, Matsui, H, Takahara, Y, Taniguchi, T and Kishimoto, T) **324**, 73

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Immunology, helper T cells. T-cell-mediated association of peptide antigen and major histocompatibility complex protein detected by energy transfer in an evanescent wave-field, *Letter to Nature*, (Watts, T H, Gaub, H E and McConnell, H M) **320**, 179

Immunology, HLA. Murine cells expressing an HLA molecule are specifically lysed by HLA-restricted antiviral human T cells, *Letter to Nature*, (Gomard, E, Begue, B, Sodoyer, S, Maryanski, J L, Jordan, B R and Levy, J P) **319**, 153

Immunology, Ia antigen. T-cell recognition of antigen and the Ia molecule as a ternary complex, *Letter to Nature*, (Ashwell, J D and Schwartz, R H) **320**, 176
Viral particles induce Ia antigen expression on astrocytes, *Letter to Nature*, (Massa, P T, Dörries, R and ter Meulen, V) **320**, 543

Immunology, interleukin-1. Clone controversy at Immunex, *Scientific correspondence*, (Wolff, S M, Auron, P E, Dinarello, C A, Rosenwasser, L J, Webb, A C and Rich, A) **319**, 270

Immunology, interleukin-4. Which interleukin-4?, *News and views*, (Newmark, P) **319**, 620
Cloning of cDNA encoding the murine IgG1 induction factor by a novel strategy using SP6 promoter, *Article*, (Noma, Y, P Sideras, Naito, T, Bergstedt-Linqvist, S, Azuma, C, Severinson, E, Tanabe, T, Kinashi, T, Matsuda, F, Yaoita, Y and Honjo, T) **319**, 640

Immunology, leprosy. Human T-cell clones recognize a major *M. leprae* protein antigen expressed in *E. coli*, *Letter to Nature*, (Mustafa, A S, Gill, H K, Nerland, A, Britton, W J, Mehra, V, Bloom, B R, Young, R A and Godal, T) **319**, 63
Mycobacterium leprae-specific protein antigens defined by cloned human helper T cells, *Letter to Nature*, (Ottenhoff, T H M, Klatser, P R, Ivanyi, J, Elferink, D G, de Wit, M Y L and de Vries, R R P) **319**, 66

Immunology, malaria. Malaria — mitogens or super antigens?, *Scientific correspondence*, (Oyeyinka, G O) **319**, 543

Immunology, natural killer cells. Ontogeny of natural killer cells, *Scientific correspondence*, (Lanier, L L and Phillips, J H) **319**, 269
Selective rejection of H-2-deficient lymphoma variants suggests alternative immune defence strategy, *Letter to Nature*, (Kärre, K, Ljunggren, H G, Piontek, G and Kiessling, R) **319**, 675
Inducible cellular transformation by a metallothionein-*ras* hybrid oncogene leads to natural killer cell susceptibility, *Letter to Nature*, (Trimble, W S, Johnson, P W, Hozumi, N and Roder, J C) **321**, 782

Immunology, T-cell genes. Rearrangement of two distinct T-cell γ-chain variable-region genes in human DNA, *Letter to Nature*, (Lefranc, M-P, Forster, A and Rabbitts, T H) **319**, 420

Immunology, T-cell receptor. Immunoglobin genes: Inversion for gene construction, *News and views*, (Baltimore, D) **319**, 12
Direct evidence for chromosomal inversion during T-cell receptor β-gene rearrangements, *Article*, (Malissen, M, McCoy, C, Blanc, D, Trucy, J, Devaux, C, Schmitt-Verhulst, A-M, Fitch, F, Hood, L and Malissen, B) **319**, 28
Is the T-cell receptor involved in T-cell killing?, *Letter to Nature*, (Lanzavecchia, A) **319**, 778
Transfer of specificity by murine α and β T-cell receptor genes, *Article*, (Dembic, Z, Haas, W, Weiss, S, McCubrey, J, Kiefer, H, von Boehmer, H and Steinmetz, M) **320**, 232
A T3-like protein complex associated with the antigen receptor on murine T cells, *Letter to Nature*, (Oettgen, H C, Pettey, C L, Maloy, W L and Terhorst, C) **320**, 272
Correlations between T-cell specificity and the structure of the antigen receptor, *Article*, (Fink, P J, Matis, L A, McElligott, D L, Bookman, M and Hedrick, S M) **321**, 219

Isolation of cDNA clones encoding the 20K non-glycosylated polypeptide chain of the human T-cell receptor/T3 complex, *Letter to Nature*, (Gold, D P, Puck, J M, Pettey, C L, Cho, M, Coligan, J, Woody, J N and Terhorst, C) **321**, 431

Immunology, T cells. Identity of cells that imprint H-2-restricted T-cell specificity in the thymus, *Letter to Nature*, (Lo, D and Sprent, J) **319**, 672

Elevation of intracellular calcium reduces voltage-dependent potassium conductance in human T cells, *Letter to Nature*, (Bregestovski, P, Redkozubov, A and Alexeev, A) **319**, 776

Immunology: Development and modification of the lymphocyte repertoire, *News and views*, (Gefter, M and Marrack, P) **321**, 116

Immunology, tolerance. Neonatal T-cell tolerance to minimal immunogenic peptides is caused by clonal inactivation, *Letter to Nature*, (Gammon, G, Dunn, K, Shastri, N, Oki, A, Wilbur, S and Sercarz, E E) **319**, 413

Immunology: Contrasuppressor cells and oral tolerance, *News and views*, (Taylor, R B) **320**, 398

Induction of tolerance by monoclonal antibody therapy, *Letter to Nature*, (Benjamin, R J and Waldmann, H) **320**, 449

Abrogation of oral tolerance by contrasuppressor T cells suggests the presence of regulatory T-cell networks in the mucosal immune system, *Letter to Nature*, (Suzuki, I, Kiyono, H, Kitamura, K, Green, D R and McGhee, J R) **320**, 451

Minor but not major histocompatibility antigens of thymus epithelium tolerize precursors of cytolytic T cells, *Letter to Nature*, (von Boehmer, H and Hafen, K) **320**, 626

Immunology: Approaches to tolerance in man, *News and views*, (Brent, L) **321**, 650

Immunology, transplant rejection. Monoclonal antibodies: Kidney rejection at bay, *News*, (Wright, K) **321**, 799

Immunology, tumour necrosis factor. Mediation of mouse natural cytotoxic activity by tumour necrosis factor, *Letter to Nature*, (Ortaldo, J R, Mason, L H, Mathieson, B J, Liang, S-M, Flick, D A and Herberman, R B) **321**, 700

Immunology, vaccines. Accidental human vaccination with vaccinia virus expressing nucleoprotein gene, *Scientific correspondence*, (Jones, L, Ristow, S, Yilma, T and Moss, B) **319**, 543

Liposomal subunit vaccine against Epstein-Barr virus-induced malignant lymphoma, *Matters arising*, (Gregoriadis, G) **320**, 87

Immunology, virus clearance. Cytoimmunotherapy for persistent virus infection reveals a unique clearance pattern from the central nervous system, *Letter to Nature*, (Oldstone, M B A, Blount, P, Southern, P J and Lampert, P W) **321**, 239

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Immunotoxins. Immunotoxins to combat AIDS, *Scientific correspondence*, (Surolia, A and Ramprasad, M P) **322**, 119

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Information technology. Scientific Communications and Information Exchange, (Mikhailov, A I, Chernyi, A I and Giliarevskii, R S) *book review by* Garfield, E, Small, H and Vladutz, G **319**, 272

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Inhibitors. Plant biochemistry: Discovery of the most abundant inhibitor in the world?, *News and views*, (Foyer, C) **324**, 211

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Inorganic biochemistry. Physical Methods for Inorganic Biochemistry, (Wright, J, Hendrickson, W, Osaki, S and James, G) *book review by* Thomson, A J **322**, 506

Inorganic chemistry. A new synthetic approach to the ferritin core uncovers the soluble iron (III) oxo-hydroxo aggregate $[Fe_{11}O_6(O_2CPh)_{15}]$, *Letter to Nature*, (Gorun, S M and Lippard, S J) **319**, 666

Inorganic Chemistry, 2nd Edn., (Sharpe, A G) *book review by* McCleverty, J **319**, 819

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Interferon response sequence potentiates activity of an enhancer in the promoter region of a mouse *H-2* gene, *Letter to Nature*, (Israel, A, Kimura, A, Fournier, A, Fellous, M and Kourilsky, P) **322**, 743

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Interleukins. Complementary DNA for a novel human interleukin (BSF-2) that induces B lymphocytes to produce immunoglobulin, *Letter to Nature*, (Hirano, T, Yasukawa, K, Harada, H,

Taga, T, Watanabe, Y, Matsuda, T, Kashiwamura, S, Nakajima, K, Koyama, K, Iwamatsu, A, Tsunasawa, S, Sakiyama, F, Matsui, H, Takahara, Y, Taniguchi, T and Kishimoto, T) **324**, 73

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Endfeet of retinal glial cells have higher densities of ion channels that mediate K^+ buffering, *Letter to Nature*, (Brew, H, Gray, P T A, Mobbs, P and Attwell, D) **324**, 466

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per. Product of *per* locus of *Drosophila* shares homology with proteoglycans. *Letter to Nature*, (Jackson, F R, Bargiello, T A, Yun, S-H and Young, M W) **320**, 185

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Brain and Mind, (Oakley, D A *editor*) *book review by* Young, A.**319**, 799

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T-DNA. Generation of single-stranded T-DNA transfer from *Agrobacterium tumefaciencs* to plant cells, *Article*, (Stachel, S E, Timmerman, B and Zambryski, P) **322**, 706

T lymphocytes. Presence of Ti (WT31) negative T lymphocytes in normal blood and thymus, *Letter to Nature*, (Lanier, L L and Weiss, A) **324**, 268

T1 antigen. Isolation of complementary DNA clones encoding the human lymphocyte glycoprotein T1/Leu-1, *Letter to Nature*, (Jones, N H, Clabby, M L, Dialynas, D P, Huang, H-J S, Hertzenberg, L A and Strominger, J L) **323**, 346

T3 complex. A T3-like protein complex associated with the antigen receptor on murine T cells, *Letter to Nature*, (Oettgen, H C, Pettey, C L, Maloy, W L and Terhorst, C) **320**, 272

T3 protein. Isolation of cDNA clones encoding the 20K non-glycosylated polypeptide chain of the human T-cell receptor/T3 complex, *Letter to Nature*, (Gold, D P, Puck, J M, Pettey, C L, Cho, M, Coligan, J, Woody, J N and Terhorst, C) **321**, 431

Talin. Cell biology: Finding the missing links, *News and views*, (Heath, J) **320**, 484

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***tat*-III gene.** Post-transcriptional regulation accounts for the *trans*-activation of the human T-lymphotropic virus type III, *Article*, (Rosen, C A, Sodroski, J G, Goh, W C, Dayton, A I, Lippke, J and Haseltine, W A) **319**, 555

The *trans*-activator gene of HTLV-III is essential for virus replication, *Letter to Nature*, (Fisher, A G, Feinberg, M B, Josephs, S F, Harper, M E, Marselle, L M, Reyes, G, Gonda, M A, Aldovini, A, Debouk, C, Gallo, R C and Wong-Staal, F) **320**, 367

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Preliminary conclusions of the Royal Society and Academia Sinica 1985 geotraverse of Tibet. *Article*, (Chang, C, Chen, N, Coward, M P, Deng, W, Dewey, J F, Ganser, A, Harris, N B W, Jin, C, Kidd, W S F, Leeder, M R, Li, H, Lin, J, Liu, C, Mei, H, Molnar, P, Pan, Y, Pan, Y, Pearce, J A, Shackleton, R M, Smith, A B, Sun, Y, Ward, M, Watts, D R, Xu, J, Xu, R, Yin, J and Zheng, Y) **323**, 501

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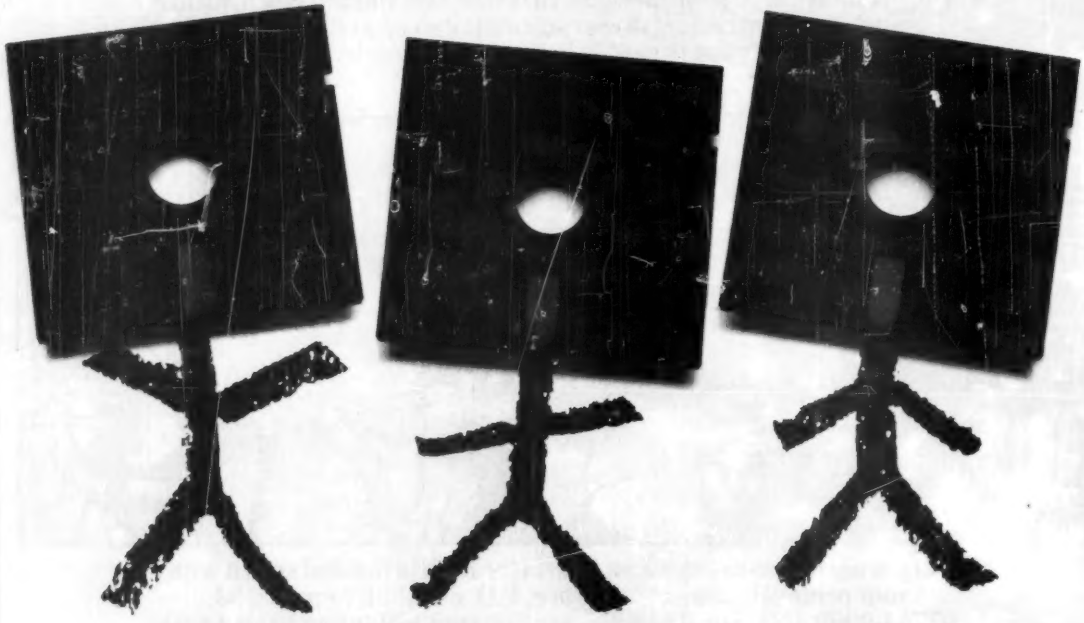

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